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⑩ **CANADIAN PATENT**

⑤④ **BEDPANS**

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③① **PRIORITY DATE**

No. OF CLAIMS 8

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This invention relates to bedpans.

Although in general use until now, there have been many objections to the use of conventional bedpans in hospitals. Apart from the disagreeableness of the work of cleaning bedpans after use, it has been found extremely difficult to ensure that the bedpans are really clean. Matter often becomes encrusted on the underside of the seat of the bedpan and is extremely difficult to remove. The work of cleaning is extremely time consuming, and the risk of cross-infection between patients in a hospital is great. Automatic bedpan washers have been proposed but these
10 have not proved to be particularly effective.

In order to avoid these difficulties and disadvantages of conventional bedpans, it has been proposed to use a bedpan with a disposable lining. Accordingly, the invention provides a bedpan adapted to receive a removable liner, having at least one projection at one end and an abutment at the other end for engaging and retaining said liner.

According to a further feature of the invention, there is provided a liner, for use with a bedpan, comprising a container, with one open end, of water-impermeable, flexible sheet material having at least one hole through said material at one side of and adjacent said open end, and an
20 elastic loop passing through at least two holes in the material at the opposite side of and adjacent said open end.

According to yet another feature of the invention, there is provided a bedpan having a removable liner of water-impermeable, flexible sheet material adapted to prevent soiling of the bedpan, said liner having at least one hole in said material engaging a projection at one end of said bedpan, and an elastic loop passing through at least two holes in the material engaging a abutment surface at the other end of said bedpan.

The advantages of using a liner on a bedpan are considerable. The liners are extremely inexpensive, and are comfortable for the patient.
30 They cut down noise and smell, and save a lot of time and labour for nurses.



The bedpans themselves remain clean, and therefore the previously necessary unpleasant work of cleaning them is avoided. The risk of cross-infection is removed, and the machines formerly used for washing bedpans, which were expensive to install and maintain are no longer required.

In order that the invention shall be clearly understood, an exemplary embodiment thereof will now be described with reference to the accompanying drawings, wherein:

Figure 1 shows a perspective view from above a bedpan;

Figure 2 shows a side elevation of a bedpan in Figure 1; and

10 Figure 3 shows a liner for the bedpan in perspective.

The bedpan shown in Figures 1 and 2 is seen to be of substantially conventional shape. It consists of a base or container part 10 and a seat part 11. It is moulded in polypropylene, or any other suitable rubber or plastics material. At the front edge of the base 10 there is provided a slot 12 which provides an abutment surface serving as an anchorage for a liner. The slot has broader portions at its ends to provide further security against the liner becoming loose. Around the upper part of the base are a series of holes 13, and at the rear of the base are two projecting studs 14. The studs 14 also serve as anchorage for a liner.

20 The liner, as seen in Figure 3, consists of an envelope of polythene which is open along one edge 15. Near one end of that edge are pairs of spaced holes 16 in both sides of the envelope, through which is threaded a loop of elastic thread 17. The loop 17 is tied at 18 and has loose ends 19. Towards the other end of the open edge 15 are aligned holes 20.

In use, the open edge 15 is spread outwardly into an oval shape to fit over the seat part 11 of the bedpan. The holes 20 are engaged over studs 14 at the rear of the bedpan, and the elastic loop 17 is stretched across the front of the bedpan and allowed to engage slit 12. The closed portion 21 of the envelope is then pressed downwardly into the inside of
30 the bedpan and smoothed outwardly under the seat portion 11 and flat onto

the inside of the base part 10. The holes 13 are needed to allow the escape of air from inside the bedpan as the liner is pushed into it.

The liner may alternatively be arranged by placing the part 21 of the container inside the bedpan first, and then spreading the open edge 15 outwardly over the seat part until holes 20 locate over buttons 14, and the elastic thread 17 locates in slit 12.

Once used, the free edge 15 of the liner is released from the bedpan and gathered together with both hands. The left hand may then be brought down to grasp the liner just above the contents, and the right
 10 hand then brought down to grasp the liner above the left, then being pushed upwards to air. The left hand can then be used to wind the free ends 19 of the elastic thread 17 around the liner in order to seal the contents. Conveniently a bucket is provided with a wire rack for receiving a number of soiled liners.

The liner may be made of two thin polythene sheets which are heat sealed along the bottom and side edges. Alternatively, the liner may be formed from a tubular sheet of polythene by sealing the bottom edge alone. The sizes of the holes in the liner are not critical, but the holes 20 are advantageously slightly smaller than the head of the buttons 14. This
 20 ensured that the rear edge of the liner cannot easily become inadvertently freed from the bedpan.

The soiled liner may be burnt without being further handled or emptied, but if containing urine only, may be emptied before burning. Using these liners, the bedpans are never soiled, and thus there is no difficulty in keeping them clean, or with cross-infection. The bedpan need not be cleaned between each use, but merely needs to be sterilised after one patient has left the hospital and before use by another.

The buttons at the rear of the bedpan may take any form which enables the liner to be held substantially without slipping, and may be
 30 moulded integrally with the bedpan during manufacture, or attached afterwards, as may be convenient. In addition, the form of the abutment surface provided in the above example by a slot is not critical and may be provided in any other suitable manner.

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THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE
PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. A liner for use with a bedpan, the liner comprising water-impermeable flexible sheet material in the form of a container open at one end and having a plurality of pairs of holes through the material near to and aligned parallel with the open end thereof, all said holes being located within the span of a minor portion of the periphery of the opening of the container, and a length of elastomeric material threaded through said holes and defining a closed loop, said loop elastically bunching said portion of the periphery of the opening.

2. A liner according to claim 1 wherein the container is defined by two opposed rectangular panels of said material closed along the major portion of their respective adjacent boundaries and open along a longer side of said rectangles, to form the container.

3. A liner according to claim 2 wherein the liner is provided with four holes through which said length of elastomeric material is threaded.

4. A liner according to claim 3, wherein two of said holes are provided adjacent one another in one panel and the other two said holes are provided adjacent one another in the other panel substantially opposite said first two holes.

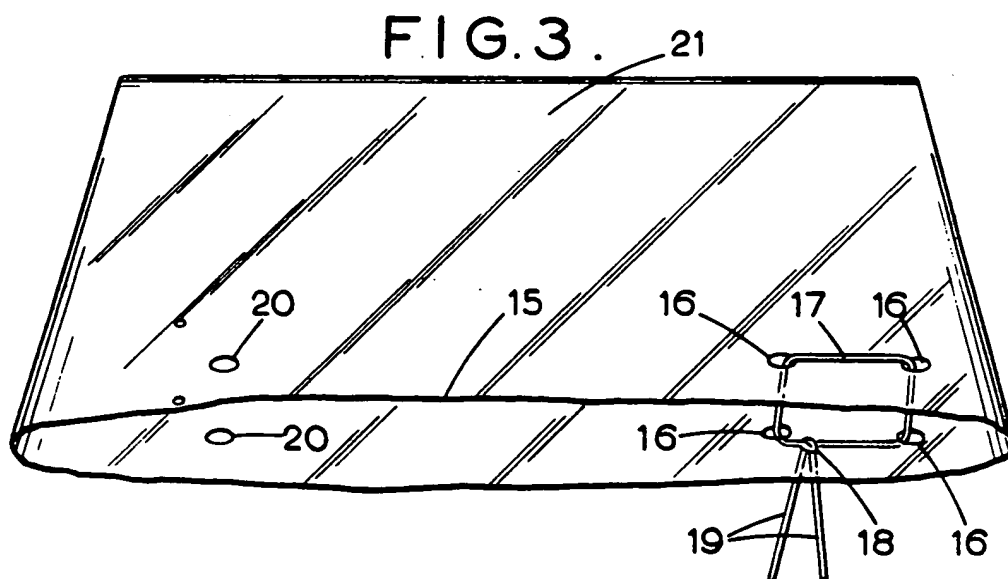
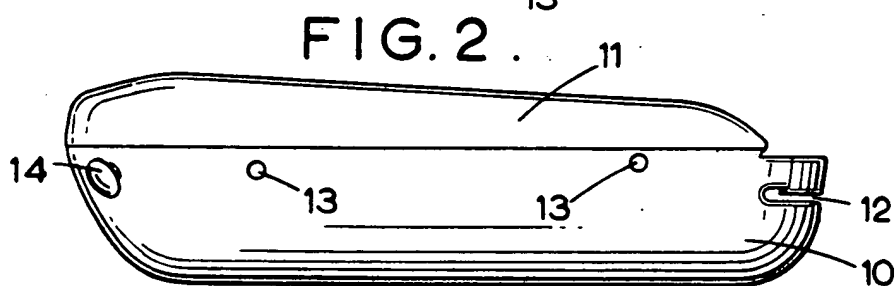
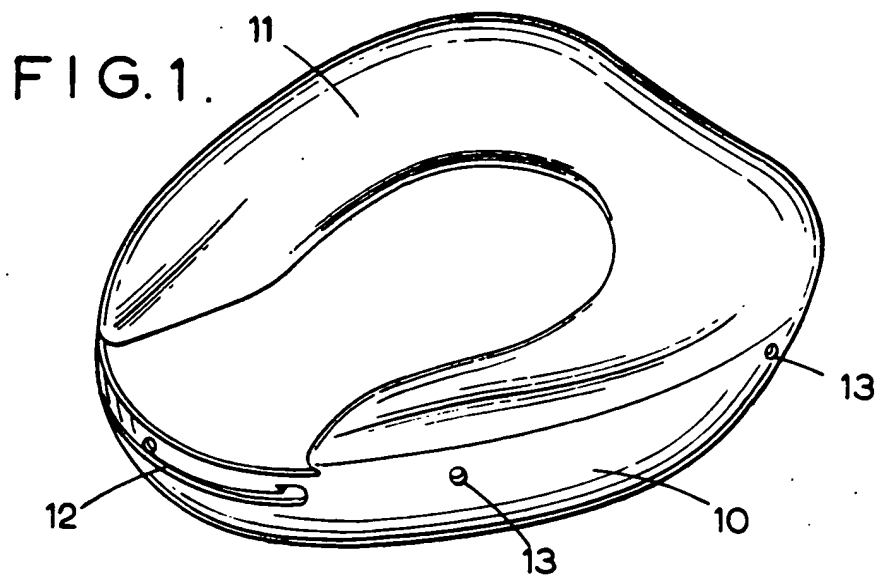
5. A liner for use with a bedpan, the liner comprising a tubular sheet of water-impermeable, combustible, flexible sheet material sealed at one end of the tube to form a container open at one end and providing two opposed panels formed by the halves of the tubes extending to the two sides of the sealed end of the tube, said panels being rectangles and being open along a longer side thereof, wherein the container has at least four holes through the material near to the open end thereof, two of which holes are disposed adjacent one another in one panel and two other of which holes are disposed adjacent one another substantially opposite said first two holes in the other panel, both pairs of holes located near the same one of the two opposed closed edges, and a length of elastomeric material threaded through said four holes and

defining a closed loop, said loop bunching a minor portion of the periphery of the container, and said length of elastomeric material also defining free ends for sealing the contents in said liner after use.

7. A liner for a bedpan, which bedpan has a plurality of projections on the exterior of one end thereof and an abutment surface at the opposite end of the bedpan, comprising water-impermeable flexible sheet material in the form of a container open at one end and having a plurality of pairs of holes through the material near to and aligned parallel with the open end thereof, said holes being spaced apart over a minor portion of the periphery of the opening of the container, a length of elastomeric material threaded through said holes and providing a closed loop for engaging the abutment surface of the bedpan with said container extending into said bedpan and said container having further holes, said further holes being adapted to engage one of the projections on the bedpan.

8. A bedpan with liner comprising a bedpan having a plurality of buttons on an exterior end thereof and a slot in the opposite end thereof with an upper edge defining said slot having each end extending upwardly and backwardly towards the center of said slot, an open end container of water-impermeable flexible sheet material having a plurality of holes each detachably receiving one of said buttons therethrough and a second plurality of holes near to and aligned parallel with the open end of the container said second plurality of holes being spaced apart over a minor portion of the periphery of said openings of the container and a loop of elastomeric material extending through said second plurality of holes thereby bunching said portion of the periphery of said open end and resiliently engaged under said slot upper edge.

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